SAF-RC-211 100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 100-F -**Soil In-Process** FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt

H4-21

KW 4/21/11 INITIAL/DATE

COMMENTS:

SDG D1109743

SAF-RC-211

Rad only

☑ Chem only

Rad & Chem

☑ Complete

Partial

Sample Location: 100-IU-2 600-300



Cover

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Report Identification Number: D1109743

Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way

Laboratory Identification Number: DCHM 2C 211

SAF#: RC-001 / RC-211-018

Sample Receipt Date: 04/07/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
04/05/2011	J1H033	1109743001	NIOSH 9002	64653	Bulk
04/05/2011	J1H034	1109743002	NIOSH 9002	64653	Bulk
04/05/2011	J1H035	1109743003	NIOSH 9002	64653	Bulk

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Name: Peter P. Steen

Title: Chemist

Date: April 13, 2011



Case Narrative

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Report Identification Number: D1109743

Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way

Laboratory Identification Number: DCHM

SAF#: RC-001 / RC-211-018

Sample Receipt Date: 04/07/2011

General Workorder Information: There is one sample in workorder 1109607, one sample in workorder 1109609, one sample in workorder 1109612, one sample in workorder 1109613, one sample in workorder 1109615, one sample in workorder 1109616, three samples in workorder 1109617, and three samples in workorder 1109743 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of these samples.

Method Summary: All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4th edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

Sample Preparation: All samples were prepared in accordance with NIOSH method 9002 (4th edition).

Initial and Continuing Calibration Verification Analysis: N/A

Initial and Continuing Calibration Blank Analysis: N/A

Method Blank Analysis: N/A

Dilution(s): N/A.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: Two samples were replicated with this analysis batch.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material

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Case Narrative

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from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.

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Miscellaneous Comments:

1109607001: Blackish, granular soil. 1109609001: Brown, granular soil. 1109612001: Tan, granular soil.

1109613001: White, powdery/fibrous material.

1109615001: Gray, granular soil. 1109616001: Gray, granular soil. 1109617001: Brown, granular soil. 1109617002: Brown, granular soil. 1109617003: Brown, granular soil. 1109743001: Brown, granular soil. 1109743002: Brown, granular soil. 1109743003: Brown, granular soil.



Results

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Report Identification Number: D1109743

Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way

Laboratory Identification Number: DCHM

SAF#: RC-001 / RC-211-018

Sample Receipt Date: 04/07/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotil %	e	Amosite		Crocidolite
J1H033	1109743001	04/13/2011	<1	U	<1	U	<1 U
J1H034		04/13/2011	<1	U	<1	U	<1 U
J1H035	1109743003	04/13/2011	<1	U	<1	U	<1 U
R	equired Detecti	on Limit (RDL)		I	**************************************	1	1

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Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/ emolite %	Tr	Anthophyl e %	llit
J1H033	1109743001	04/13/2011	<1	U	<1	U
J1H034	1109743002	04/13/2011	<1	U	<1	U
J1H035	1109743003	04/13/2011	<1	U	<1	U
R	equired Detecti	on Limit (RDL)		1		1

U - Parameter not detected above LOD

NA - Not Applicable

J - Parameter between LOD and RDL

^{** -} Not provided or unable to calculate

QC Summary

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Report Identification Number: D1109743

Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way

Laboratory Identification Number: DCHM

SAF: RC-001/RC-211-018

Sample Receipt Date: 04/07/2011

Batch ID: 64653

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107804	LCS	Amosite	%per sample	50%	65%
QC107804	LCSD	Amosite	%per sample	60%	65%
QC107804	LCS	Chrysotile	%per sample	5%	10%
QC107804	LCSD	Chrysotile	%per sample	10%	10%

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

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MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100



1109743	hand	<u> </u>	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	.S/Ado.	MPLE	ANAL	SIS REOUE	TS	RC-211-018	10743 Page 1 of 3
Collector OJEDA AJ		Company Contact Jen Russell	Contact ssell	Telephone No. (509) \$40-6502	e No. 40 6502		Project Coordinator KESSNER, JH	rdinator JH	Price Code 8C	Data Turnaround
Project Designation 100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 1	neous Restoration Sites Near		Location 2 600-300				SAF No. RC-211			7 Days
Ice Chest No.	ERC-02-001	Field Logbook No. EL-1651	book No.		COA 0IUZZDY000	ŏ	Method of Shipment		FedEx Jeylon	
Shipped To Sky 415(1) Test America Kiemand (##) ALS—SLC	ALS-SLC	Offsite Pr	Offsite Property No. NA				Bill of Ladi	Bill of Lading/Air Bill No.	7569	4106 8185
POSSIBLE SAMPLE HAZARDS/REMARKS	DSREMARKS		ļ							
None		ı	Preservation	None						
Special Handling and/or Storage	Haor	Г <u>.</u>	Type of Container	Ψ.						
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			Volume	7405.7						
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WCH-EE-011										

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2011-04-07-1109743-02

Washington Closure Hanford	CH	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	TODY/S/	AMPLE	ANALYS	IS REQ	UEST		RC-211-018	8 Pape 3	ર્ભ ્
Collector CUEDA, AJ	Company Contact Jen Russell	Contact sell	Telephone No. (509) 540-6:	lephone No. (509) 540-6502		Proice KESS)	Project Coordinator KESSNER, JH	Price Code	dr 8C	Data Tr	Data Turnaround
Project Designation 100-1U-2 & 100-1U-6 Miscellaneous Restoration Sites Near I	Š	Location 2 600-300				SAF No. RC-211	- p			7	Days
Ire Chest No. 12 ERC-02-00)		book No.		COA OIL 22DY000	•	Metho	Method of Shipment		JE 415/11		
Shipped To Je 4/5/11 That America Richland (III) ALS-SLC	Offsite Pr	Offsite Property No.				Bill of	Bill of Lading/Air Bill No.		7969	4106 8185	74/4
POSSIBLE SAMPLE HAZARDS/REMARKS				-			; ;		i		
None		Preservation	None			***		·	<u>.</u>	· · · · ·	
Special Handling and/or Storage		Type of Container	٠.								
None	7	No. of Container(s)	1								
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